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BLOC1S5 Human

Catalog #:PRPS-1162

For research use only.

Description:BLOC1S5 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 210 amino acids (1-187 a.a) and having a molecular mass of 24kDa.BLOC1S5 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Synonyms: Biogenesis of lysosome-related organelles complex 1 subunit 5, BLOC-1 subunit 5, Protein Muted homolog, BLOC1S5, MUTED.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MGSMSGGGTE TPVGCEAAPG GGSKKRDSLG TAGSAHLIIK DLGEIHSRLL DHRPVIQGET RYFVKEFEEK RGLREMRVLE NLKNMIHETN EHTLPKCRDT MRDSLSQVLQ RLQAANDSVC RLQQREQERK KIHSDHLVAS EKQHMLQWDN FMKEQPNKRA EVDEEHRKAM ERLKEQYAEM EKDLAKFSTF.

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:
BLOC1S5 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 40% glycerol, 2mM DTT, 0.1mM PMSF and 1mM EDTA.

Stability:
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
Muted homolog (MUTED) is a component of the BLOC-1 complex, a complex which is necessary for normal biogenesis of lysosome-related organelles (LRO), such as platelet dense granules and melanosomes. The BLOC-1 complex is needed to steer membrane protein cargos into vesicles assembled at cell bodies for release into neurites and nerve terminals. In addition, this complex, along with SNARE proteins, is sµggested to be involved in neurite extension. MUTED also interacts with pallidin, dystrobrevin binding protein 1 and CNO/cappuccino. MUTED is ubiquitously expressed with higher levels in the brain, bone marrow, kidney, and liver and lower levels in the skeletal muscle.

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